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Miami-Dade County

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Red Light Camera Program (“Program”)

The Program shall be a turnkey Program. The Scope of Work for the County's Program includes furnishing, installing, managing, operating, and maintaining a Program that meets the requirements contained herein. The Selected Proposer shall be responsible for furnishing all equipment, materials, personnel, management, office space, hardware, software, system power, and any other requirement to operate the Program in accordance with the requirements of this RFP and the Florida Statutes. The Program shall also include providing various services; including, but not limited to, a public awareness educational program, providing Program software and hardware systems (may require interfacing with various county systems), and working with the various county departments that interface with the Program.

Camera systems will be placed at arterial intersections designated by the county where data has shown a high level of violations and/or a frequency of right-angle collisions likely caused by running of red traffic signals. All costs for the Program shall be borne by the Selected Proposer, except for the fee for the Program paid to the Selected Proposer by the County. The Selected Proposer will be required to comply with all of the rules, regulations, requirements, standards, and protocols established by the Miami-Dade County Court System (“Court”). All costs to convert or bring the Program in to compliance with FDOT and the Court's rules, regulations, requirements, standards, and protocols as required by this RFP and any resulting Contract shall be the sole responsibility of the Selected Proposer.

Cameras, and all necessary equipment to operate the cameras, shall be installed at the locations identified in the RFP (Exhibit 1), as a free-standing, self-sustaining system and shall operate independent of the County's or FDOT's existing signal systems. Camera systems are not to be hard-wired into the County's traffic control systems. As part of this RFP, Proposers are being requested to identify how their Camera System will be integrated into the County's traffic control system.

1. Location of Cameras

This solicitation requires Camera systems to be installed on County right-of-ways, by permit or on easements obtained by the Selected Proposer from private property owners, the County, or the FDOT. The Selected Proposer shall be solely responsible to obtain said permits or easements. Should FDOT promulgate regulations under the new Florida Statute that permits the installation of the Cameras at alternate locations, the Selected Proposer may install the Camera System at such locations subject to full compliance with the promulgated rules and regulations, and approval by the County.

2. Public Education and Awareness

Prior to commencement of the Program, as defined by the RFP, a sixty (60) day public education and awareness period shall commence. During this period, the Selected Proposer will work with the County to educate the public and drivers on requirements of the Program. The County may provide assistance with community outreach efforts through County newsletter publications, County's website, video clips on Cable TV Channel, and other means as deemed appropriate by the County. During this public education and awareness period, only warnings shall be mailed to the owners of

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registered vehicles committing red-light infractions. Notices of violations will not be issued nor will the infraction result in a citation during the public education and awareness period. Upon completion of the sixty (60) day period, notices of violations or citations will be issued and violators will be subject to a fine under the Florida Statutes.

3. Program Requirements

a. Violations and Citations

- All traffic citations must be issued under § 316.0083 F.S.
- FDOT and Miami-Dade County Court System ("Court") have developed rules, regulations, procedures, guidelines, and standardized forms that must be used as part of this Program. The Selected Proposer will be required to make any changes to its proposed Program to ensure compliance. The cost to make these changes shall be borne solely by the Selected Proposer.

b. Lane Coverage

Each camera shall be capable of covering one (1) approach of an intersection. At selected approaches, up to five (5) lanes will require coverage, including any turn lanes.

c. Management & Operations Facility

The Selected Proposer shall manage and operate an office that shall be responsible for:

- Review images
- Access motor vehicle registration data
- Perform final quality control
- Print and mail notices
- Monitor disposition of notices
- Collect fines
- Provide adjudication support and services, including expert testimony

d. Web Based Access

Proposer must own and maintain an internet web based system that permits multiple levels of access by any individual with an internet connected personal computer access to the information on the Program. Software must be developed in an open architecture environment, and shall allow the data to be transferred and used by the County at the completion of the Contract or should the Contract be terminated. The internet based database system ("System") will have sufficient security protocols to allow, at a minimum, the following:

- Provide information on the Program, including education information to any individual accessing the web site.
- Any individual who has received a notice of violation or citation to view their violation pictures and video online, and pay their fine online using a major credit card or banking information
- Allow the Traffic Enforcement Officer ("TEO"), as defined under §316.650 F.S., to electronically transmit citation data from the System to the Court system.

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- Allow designated County personnel access to the System to view any violation, and obtain online and print reports.

e. Payment of Violations

Payment methods shall include:

- Payment by check
- Internet based through the use of bank accounts, credit cards. In addition, Paypal or similar methods may be allowed.
- Payment by phone using a credit or debit card. The County would prefer that this service be available 24 hours/ 7 days a week. However, this service shall be available a minimum of five days per week, and a minimum of ten hours per day, including hours after 6:00 PM eastern time to allow for payments to be made after normal business hours.
- Selected Proposer shall provide for a third party collection service for the collection of delinquent accounts, at County's discretion, if this is not managed by the Court.

f. Management & Operations

Selected Proposer shall be responsible for the following:

- Selected Proposer shall provide all of the equipment, software, materials, etc. required to operate and maintain the Program.
- Site design, installation, maintenance and operation of automated Camera Systems at all selected intersections, including, but not limited to, securing all necessary permits and required property easements.
- Assistance with intersection selection, including establishment of baseline counts of red light violations at intersections selected by the County. When combined with statistical monitoring, as detailed below, these baseline data should enable the County to measure the impact of the camera system.
- Maintaining and providing access to all education and Program information on the System.
- Processing of all violations and citations in accordance with the Florida Statutes, utilizing the System.
- Provide Program training to county personnel. Assist with obtaining FDOT training, in accordance with §316.650 F.S., for county staff (Miami-Dade Police department personnel), for staff performing the duties of the Traffic Enforcement Officer.
- Provide expert and court testimony as required to defend any citation or challenge to the Program.
- Development of signage, public information material (in written, video, and audio formats) for distribution via various media resources, and a community outreach campaign, which are acceptable to the County.
- The Selected Proposer shall meet the requirements of the Florida Statutes and FDOT for signage or public information materials.
- Provide the standardized and customized reports which shall be available through the System. Selected Proposer shall also provide hard copies of requested reports and presentation material on an as-needed basis. Prepare

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for review by the County and submission to FDOT to others as required by the Florida Statutes, once the requirements are established by FDOT.

- Training County staff as required in all aspects of the Program and the System.
- Maintain a financial management system for the revenue generated from violations and citations. The financial information shall be available to the County at all times through the System.

g. Initial List of Intersections

The County has included Exhibit 1 which lists the intersection available for the Program. Intersections may be added or deleted by the County.

Within a thirty (30) day period after installation of the camera system at any of the above locations or any other location added by the County, if the County and the Selected Proposer determine that the intersection does not warrant a camera system due to a low volume of red-light infractions, the County, at its sole discretion, may allow the Selected Proposer to relocate the Camera System(s) to another intersection approved by the County.

h. Financial Return to the County

The Program shall generate revenue to the County. The Selected Proposer is required to collect and sent to the County fines generated from violations in accordance with §318.18 F.S., and as defined by the County.

The County will only accept Responses that guarantee the County will not be charged for cameras when revenue generated by a camera is less than the Selected Proposer's cost for that camera will be accepted. Proposals that do not meet this criterion will be considered nonresponsive. Should the violation revenue fall short of the cost of the fees, the Selected Proposer will absorb the difference in cost. The County will not pay any fees that exceed revenue generated by the Program.

4. TECHNICAL SPECIFICATIONS

4.1 Traffic Infraction Camera System

Proposer shall provide and install all equipment including, but not limited to, cameras, poles, cabinets and related operational equipment ("Camera System") at the selected intersection(s) independent of existing traffic signals and associated traffic control equipment.

4.1.1 The Camera System installed at an intersection must be capable of capturing pictures, video, and data of up to four (4) approaches and up to five (5) lanes on each approach that may require both left and right turn monitoring. The Camera System must be non-intrusive to roadway and/or traffic signal equipment and cabinetry.

4.1.2 The Camera System shall use a high quality digital camera system with an output equal to or greater than 10 million pixels per image is required. Proposer must detail the image quality specifications and provide real sets of infraction image examples captured in daytime, nighttime, during inclement weather and during times where sunlight is pointing in the direction of the camera. 4.1.3 The Camera System shall be capable of gathering traffic data for statistical analyses.

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4.1.4 The Camera System shall be capable of operating selectively in a wide range of operating conditions (e.g., heavy traffic volumes, adverse weather conditions, nighttime and daytime, non-standard roadway surface configurations, etc., and across five (5) moving lanes of traffic).

4.1.5 The Camera System shall provide a reliable non-intrusive, non-invasive, non-physical connection to the red phase of the traffic signal. Violation detection and camera triggering must be accomplished without any connectivity between the camera system and the Traffic Control System. No power couplings may be utilized.

4.1.6 The Camera System shall be capable of distinctly capturing multiple red-light infractions on each approach of an intersection.

4.1.7 The Camera System must provide at least three (3) digital color still images of each violating event. The images must be taken so that the rear of the vehicle and license plate are captured and are clearly readable. The first image shall capture the vehicle before the front wheels strike the crosswalk or legal infraction limit line. The second image shall capture the vehicle after the rear axle has crossed the crosswalk or legal limit line. The third image shall depict a close-up of the license plate. In addition, the camera must have the capability to capture a short duration audio/video clip of the infraction.

4.1.8 The Camera System shall record data pertinent to each infraction at the time of capture. Data shall be recorded in a flexibly configured data bar that is embedded with each scene, license plate and stop bar detection images that may be used to prove the infraction. The data bar shall include, but is not limited to, the following information for each infraction:

- a) Unique infraction identifier incorporating the County;
- b) Location of infraction;
- c) Date (MM/DD/YYYY);
- d) Time of the infraction in 24 hour clock including hours, minutes and seconds;
- e) Elapsed time between images;
- f) Direction of travel;
- g) Traffic signal phase;
- h) Time into the red phase displayed in thousandths of a second;
- i) Duration of the prior amber phase;
- j) Vehicle lane of travel;
- k) Camera ID; and
- l) Frame sequence number.

4.1.9 The Camera System must provide an ancillary video and audio system as supporting information to the infraction provided by the still images. The video must be full motion at the rate of thirty (30) frames per second or greater and allow aperture adjustment.

4.1.10 Each imaging unit's operation shall be microprocessor controlled and fully automatic.

4.1.11 The Camera System shall be capable of on-site or remote activation and maintenance support.

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4.1.12 The Camera System shall perform self-test on set-up; simulate an infraction being recorded for testing; communicate error messages; record date and time of system shutdown in the event of a malfunction.

4.1.13 The Camera System shall allow a malfunction to be easily identified and debugged on-line.

4.1.14 The Camera System shall record event-specific evidence to substantiate multiple, simultaneous and/or concurrent infractions occurring during any red signal phase.

4.1.15 The Camera System shall provide 24 hours a day/365 days a year “real time” intersection remote monitoring and viewing capabilities as well as the ability to generate statistical user-defined reports as further detailed below. Further, the Camera System shall have the ability to archive and retrieve video independent of a red light violation for a minimum period of forty five (45) or until a violation or citation is paid or adjudicated. This is very valuable for accident reconstruction, crime investigations, etc. Please provide if applicable, specific examples of customer successes utilizing this benefit.

4.1.16 The Camera System component operations must be synchronized to a single, standard, independent, external and verifiable time and date source.

4.1.17 The Camera System enclosures must be tamper proof and vandal proof and must remain operational and perform satisfactorily during normal weather conditions.

4.1.18 The Camera System should minimize the amount of equipment and infrastructure at the intersection.

4.1.19 The Camera System must be as small as possible and use as little power as possible and preferably should incorporate a non-intrusive alternate power source

4.1.20 The Camera System must be designed in such a fashion that maintenance and other operations can be accomplished easily and quickly without creating a public safety hazard.

4.1.21 Installation and maintenance requirements should be such that they minimize downtime or non-operational time.

4.1.21 In addition to monitoring straight-through infractions, the Camera System shall be capable of detecting and recording evidence of left and right turn infractions, regardless of vehicle speed

4.1.22 Proposer must have an emergency recovery plan that minimizes downtime resulting from unforeseeable circumstance (i.e. power outages, accidents involving the traffic poles, severe storms, hurricanes, etc.), and during emergency/disaster conditions.

4.1.23 The County desires to integrate the video feeds from this Program to the Countywide CCTV.

4.2 INFRACTION PROCESSING

4.2.1 The System, as defined by the RFP, must be integrated with the Court computer system. The Court will require that all citations be submitted electronically to the Court

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within five (5) days of the issuance of a citation. The Court will not accept paper citations.

4.2.2 There shall be no requirement to install the Selected Proposer's System on County-owned/maintained IT systems. However, the County shall be capable of installing the Selected Proposer's System on County owned hardware should, at its sole discretion, it choose to do so.

4.2.3 Proposer's System shall allow authorized County personnel a detailed view of all information related to a specific infraction as well as to the Program in general.

4.2.4 The System shall be available 24 hours a day/365 days a year for authorized users for the purpose of pre-processing evidence, police authorization, notice printing, payment tracking and generation of reports and any other required information or documentation.

4.2.5 The System shall have the following capabilities:

- a) Web-enabled access and operation;
- b) Secure user log-in and access;
- c) Automatic presentation of images and data captured by the camera system onto review PCs;
- d) Easy review of infraction evidence;
- e) Ability to both "play" full motion video (with audio) and view multiple scene and plate images;
- f) Ability to view each image as a full screen enlargement with a single click;
- g) Ability to view all original recorded images of the infraction;
- h) Ability to "crop" a license plate image area from the multiple-image license plate set to establish vehicle ID, and subsequently "copy and paste" the cropped plate area image onto the notice;
- i) Ability to "accept" or "reject" infraction sets and record rejection reasons;
- j) Ability to generate printed warning letters and mail to registered vehicle owners during the first sixty (60) days of the Program;
- k) Ability to automatically generate printed violation notices to mail to registered vehicle owners;
- l) Ability to store and archive all processed infraction evidence into a secured database;
- m) Ability to access any stored infraction image from the system's database subject to agreed archive rules;
- n) Ability, upon request, to immediately view and print standard and/or user-defined reports;
- o) Secured Access Control and automatically generated Electronic Audit Trails; and
- p) Encryption and decryption management.

4.2.6 The Proposer shall comply with the violation notification procedure established in the Florida Statutes and any rules, regulations, procedures promulgated by FDOT and the Court.

4.3 STATISTICAL ANALYSIS AND REPORTING SYSTEMS

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4.3.1 The System shall have the capability for the County to produce statistical analyses of camera locations, operations, and recorded data, including, but not limited to, the following applications:

- a) Hours of use per camera by operational site;
- b) Results achieved by each camera by site;
- c) Red light infractions recorded by each camera by site;
- d) Traffic counts by location, lane, date and hour, and time period (i.e. am/pm peak periods); and
- e) Ability to generate ad-hoc (user-defined) reports on all data.

4.3.2 The System shall be capable of immediately generating operations reports upon request, including:

- a) Number of infractions recorded;
- b) Number of infractions for which notices were not issued;
- c) Number of notices prepared and mailed;
- d) Status of notices issued (outstanding, canceled, reissued and closed); and
- e) Number of notices appealed by registered vehicle owners.
- f) Number of cases upheld.

4.3.3 The System shall also supply statistical reports of camera performance/operations:

- a) Camera equipment hours of service and hours out-of-service; and;
- b) Number and description of camera or other equipment malfunctions by camera ID, location, date, time, etc.

4.3.4 The System shall be capable of providing violation and traffic statistics as follows:

- a) Real-time traffic volumes/counts as per Section 4.3.1, d, above; and;
- b) Real-time infraction graphs and charts by:
 - i) location;
 - ii) lane;
 - iii) time of day; and
 - iv) day of week.

4.3.5 System shall be capable of analyzing the results obtained from each camera to show the prosecutable image rate (i.e., the number of notices issued compared to the number of infractions captured).

4.3.6 Selected Proposer shall provide the County with a monthly activity report within ten (10) days following the end of the month and customized reports on a per request basis.

4.3.7 The monthly report shall contain, at a minimum, the following information:

- a) The number of infractions detected, notices issued, and the prosecutable image rate by location and system-wide;
- b) The total number of infractions that occurred by location and percentage of total vehicle traffic by lane by location;
- c) The total number and percentage of rejected images by reason; and
- d) The information specified in Section 5.3.3 below.

4.3.8 System shall be able to provide all documentation required to meet FDOT and Court reporting requirements.

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4.4 IMAGE TRANSMISSION SECURITY AND DATA STORAGE

4.4.1 Proposer must provide for image and data security that shall prevent unauthorized persons from accessing the camera images and databases and tampering with images.

4.4.2 The Proposer must store all enforceable images produced by cameras for no less than 180 days after final disposition or for a greater duration as requested by County.

4.4.3 Proposer shall provide an evidence package for any contested violations.

The package shall consist of:

- a) All issued and disputed notices to the party;
- b) A violation history report;
- c) A correspondence file; and
- d) A payment history.

4.4.4 Proposer will maintain a proper chain of evidence that meets the needs of County, and the court system.

4.4.5 Proposer will provide a qualified expert witness who is knowledgeable on the theory, operation and functional capabilities of the red light camera unit. Proposer shall provide for expert testimony at court hearing as directed by the County.

4.5 MAINTENANCE, SUPPORT AND TRAINING

4.5.1 All maintenance of camera, video, sensors, computer and related equipment shall be the responsibility of the Proposer. This shall include provisions of electricity or other sources of power to the equipment at Proposer's expense.

4.5.2 Proposer shall guarantee to repair or replace any inoperable equipment within 48 hours of detection by the Proposer or notification by the County.

4.5.3 Proposer must have a standard maintenance and inspection plan.

4.5.4 Proposer must provide ongoing training support for their product.

4.5.5 Provision of hands-on training as necessary to personnel as required by the County.

4.5.6 Proposer shall furnish training materials.

4.6 OPERATIONS AND PUBLIC AWARENESS

4.6.5 Proposer will fund, develop, and implement a public education Program inclusive of materials for mass distribution. The County will provide, at its discretion and at no cost to the Selected Proposer, access to Cable TV Channel 77 as well as to County newsletters and other County-related publications as appropriate.

4.6.6 Selected Proposer will support the County by training staff on how to present the Program at public seminars or presentations. The Selected Proposer will provide staff for public forums as necessary.

4.6.6 Proposer shall provide signage, posters, and

4.7 INSTALLATION OF ANY TRAFFIC INFRACTION CAMERA

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1. An application for installing a Traffic Infraction Camera at an intersection must be accompanied by:

Intersection and Signal Data

Signal Visibility

Pavement and Marking Data

Diagram of Intersection

Signal Timing and Traffic Data

Crash and Enforcement Data

Traffic crash data (past 18 months)

Traffic citation data (past 18 months)

Law enforcement officer observations

Video surveys of violations

Inspection of Intersection, and approaches noting any readily observable causes for red light running which can be addressed through traffic engineering solutions. In lieu of the above, a traffic engineering study (signed and sealed by a Florida licensed Professional Engineer) with relevant information supporting the installation of a Traffic Infraction Camera at the intersection requested, may be submitted by the Permittee.

2. Any Traffic Infraction Camera placed within, under, over, or along the County right-of-way that is found by the Miami-Dade County Public Works and Waste Management Department (PWWM) to be interfering in any way with the convenient, safe, or continuous use, or maintenance, improvement, extension, or expansion of the County roadway facility shall, within thirty (30) days of written notice to the Permittee by PWWM or its agent, be removed or relocated by the Permittee at the Permittee's own expense. If the Permittee does not remove the Traffic Infraction Camera, PWWM may remove same at the Permittee's expense.

3. The Permittee agrees that in the event the relocation of a Traffic Infraction Camera is required to be done simultaneously with PWWM's construction work, the Permittee will coordinate with PWWM before proceeding and shall cooperate with the PWWM's contractor to arrange the sequence of work so as to not delay the work of the PWWM contractor, defend any legal claims of the PWWM's contractor due to delays caused by the Permittee's failure to comply with the approved schedule, and shall comply with all provisions of the issued permit. The Permittee shall not be responsible for delay beyond its control.

4. The Permittee shall comply with all applicable provisions of Chapter 556, Florida Statutes (Underground Facility Damage Prevention and Safety Act), including but not limited to, those pertaining to locate requests for locating their underground facilities.

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5. The Permittee is responsible for the repair of any Traffic Infraction Camera installed by the Permittee under this permit. Prompt repair and restoration of the Right of Way to its original condition before such damage, is required. If the Permittee fails to perform such restoration as required by the County, PWWM is authorized to do so and charge the Permittee the cost thereof or may remove the Traffic Infraction Camera at Permittee's expense.
6. The Permittee must notify PWWM when the Traffic Infraction Camera is activated. Notification shall be within 7 days of activation. Should the Permittee decide to place the Traffic Infraction Camera out of service, the Permittee shall notify PWWM of such action within 7 days and the obligations of the Permittee shall continue under this Permit. Should the Permittee decide to remove its Traffic Infraction Camera, it shall be at its own expense. PWWM may direct the Permittee, at the Permittee's sole expense, to remove out of service Traffic Infraction Cameras whenever the PWWM determines said removal is in the public interest.
7. The Traffic Infraction Camera shall not be attached to any traffic signal poles or other traffic control device.
8. All conduit, pull and junction boxes installed shall meet the current FDOT Standard Specifications for Road and Bridge Construction and PWWM Specifications and requirements.
9. Non-intrusive vehicle detection technologies are preferred. The PWWM will allow wireless detection devices to be embedded in the roadway as long as they do not interfere with traffic signal operation equipment. Detection loop wires and the corresponding saw cutting of the roadway will not be allowed.
10. Use of existing PWWM traffic signal conduits or pull and junction boxes for the purpose of installing Traffic Infraction Cameras is not allowed.
11. The Traffic Infraction Camera must have its own electrical service. The service cannot be supplied from the traffic signal controller cabinet, the traffic signal service meter/disconnect, nor the roadway lighting system. Payment of electrical service costs for the Traffic Infraction Camera will be the sole responsibility of the Permittee.
12. Any attachment to traffic signal cabinet wiring for the purpose of monitoring signal indications shall be electrically isolated from the traffic signal cabinet. PWWM may allow sensing devices, such as the "donut" current transformers or Hall-effect devices. Such attachments must have the prior written authorization of the PWWM Traffic Signals and Signs Division (TSS). All other physical or electrical connections to traffic signal control circuits are not allowed, including load switch driver control circuits, load switch signal circuits and detection circuits. Permittee must coordinate with PWWM TSS for authorization and access to the signal cabinet whenever access is needed.

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13. PWWM may direct the removal of Traffic Infraction Cameras if traffic safety has been found and documented to be negatively impacted due to the installation of the Traffic Infraction Cameras.

14. Communications to the Traffic Infraction Camera shall be on its own communications system. The traffic signal system communications interconnect shall not be used to transport or access Traffic Infraction Camera data.

15. The Traffic Infraction Camera permit approval is for the implementation of the Mark Wandall Traffic Safety Program, as set forth in Section 316.0083, F.S., which authorizes the issuance of citations by the use of automated cameras for disregard of a steady red signal indication when a vehicle fails to stop behind the stop bar or clearly marked stop line. **Permit approval does not authorize the use of License Plate Recognition systems.** The Traffic Infraction Cameras shall record only plate numbers of violators of the steady red signal indication. Viewing, recording, or cataloging the movements of registered vehicles passing through the intersection is not authorized.

16. All Traffic Infraction Camera placement and installation shall be in accordance with the Placement and Installation Specifications developed by the FDOT pursuant to Section 316.0776, Florida Statutes. Placement and Installation Specifications are available at <http://www.dot.state.fl.us/trafficoperations/operations/RLRC.shtm>

17. Roadway signs shall be installed in accordance with the FDOT Traffic Infraction Camera Placement and Installation Specifications. The Permittee shall provide, install, and maintain the required signs.

18. The construction plans must be signed and sealed by a Florida licensed Professional Engineer.